

P.O. Box 2786 Chicago, Illinois 60690-2786 (312) 357-1313

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Group Art

Unit:

1633

Application No.: 09/844,705

Filing Date:

April 27, 2001

First Named

Inventor:

Bosworth, Brad T., et. al.

Title:

Methods to Identify Swine Genetically

Resistant to F18 E. Coli Associated

Diseases

Attorney

Docket No.:

21419-91512

Examiner

Name:

Woitach, Joseph, T.

Certificate Under 37 CFR 1.8(a)

I hereby certify that this correspondence is being deposited via Express Mail EV 492 594 989 US with the United States Postal Service addressed to: Mail Stop Issue Fee,

Commissioner for Patents, P.O. Box 1450,

Alexandria, VA 22313-1450

on March 9, 2005.

lice O. Martin)

CORRECTION OF NOTICE OF ALLOWANCE AND FEE(S) DUE MAILED **JANUARY 6, 2005**

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Please amend the above-identified Notice of Allowance and Fee(s) Due on page 1 as follows:

Replace the incorrect filing date of July 26, 2001 with the correct date April 27, 2001.

Please see enclosed filing receipt, and the return postcard and express mail receipt, and page 2 of the Notice of Allowability showing the correct April 27, 2001 date.

The Issue Fee was paid on February 8, 2005. (Copy enclosed).

Respectfully submitted,

O Marlin

Alice O. Martin

Reg. No. 35,601

BARNES & THORNBURG P.O. Box 2786 Chicago, Illinois 60690-2786 (312) 357-1313

Dated: March 9, 2005 CHDS01 AOM 262174v1

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MAR 0 9 2005 (3)	Application No.	Applicant(s)	
	09/844,705	BOSWORTH ET AL.	
PADEMANN Notice of Allowability	Examiner	Art Unit	
TABE WIT	Joseph T. Woitach	1632	
	Joseph 1. Wollach	1002	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIP of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in to or other appropriate commune GHTS. This application is su	his application. If not included included included included in the mailed in due course. THIS	tive
1. This communication is responsive to <u>9/23/2004</u> .			
2. The allowed claim(s) is/are 3.5 and 6.			
3. \boxtimes The drawings filed on <u>27 April 2001</u> are accepted by the Ex	kaminer.		-
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" on the below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give (a) including changes required by the Notice of Draftsperson (b) including changes required by the Notice of Draftsperson (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1. each sheet. Replacement sheet(s) should be labeled as such in the capacitation of the priority of the pr	been received. been received in Application cuments have been received of this communication to file at ENT of this application. Sitted. Note the attached EXAMONDS reason(s) why the oath or control to the submitted. Son's Patent Drawing Review of the Amendment / Comment or in the header according to 37 CFR sit of BIOLOGICAL MATER	No in this national stage application from the reply complying with the requirements MINER'S AMENDMENT or NOTICE OF declaration is deficient. (PTO-948) attached In the Office action of drawings in the front (not the back) of 1.121(d). RIAL must be submitted. Note the	
Attachment(e)			
Attachment(s) 1. Notice of References Cited (PTO-892)	5. Notice of Info	rmal Patent Application (PTO-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	6. 🔲 Interview Sun	nmary (PTO-413),	
	Paper No./M	ail Date mendment/Comment	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date	•		
4. Examiner's Comment Regarding Requirement for Deposit		tatement of Reasons for Allowance	
of Biological Material	9. Other		
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MAR 0. 9 2005

Application/Control Number: 09/844,705

Art Unit: 1632

DETAILED ACTION

This application filed April 27, 2001 is a continuation of 09/443,766 filed November 19, 1999, now US Patent 6,596,923 (issued July 22, 2003) which claims benefit under 35 U.S.C. 120 to PCT/US98/10318, filed May 20, 1998, which claims benefit to provisional application 60/047,181, filed May 20, 1997.

Applicants' after final amendment filed September 23, 2004, has been received and entered. Claims 1, 2 and 4 have been canceled. Claims 3 and 5 have been amended. Claims 3, 5 and 6 are pending and currently under examination.

Reasons for Allowance

The following is an examiner's statement of reasons for allowance:

The terminal disclaimer filed June 23, 2004, has been received and accepted. The filing of the disclaimer has obviated the obvious double patenting rejection over 6,596,923. With respect to the second double patenting rejection, Applicants' previous arguments and the amendments to the claims has sufficiently distinguished the instant claimed method of identifying and breeding swine resistant to toxigenic *E. coli* from the methods of increasing weight gain as claimed in 6,355,859.

As indicated in the previous office actions the claims are free of the art of record because while the art indicates that cell surface receptors on intestinal cells are the target molecules for *E. coli* colonization, and that the glycosylation on said receptors may be important in determining the ability of a particular *E. coli* to colonize the intestine, the art fails to specifically teach that an

Art Unit: 1632

adenine at position 307 of the open reading frame of alpha (1,2) fucosyltransferase (FUT1) (SEQ ID NO: 12) can be correlated with resistance to *E. coli* strain F18 and possibly with the subsequent associated diseases. The amendment to the claims and Applicants' arguments have been fully considered and are found sufficient to address the remaining rejections of record.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph Woitach whose telephone number is (571) 272-0739.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Reynolds, can be reached at (571) 272-0734.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group analyst Dianiece Jacobs whose telephone number is (571) 272-0532.

Joseph T. Woitach

MOSTANOTANA PATENTEGOROSE

Joe Walas AU1632



ventor: Brad Bosworth and Peter Vögeli Title: METHODS TO IDENTIFY SWINE

GENETICALLY RESISTANT TO F18 E. COLI

ASSOCIATED DISEASES Filing Date: April 27, 2001 Atty Docket No. 21419/91512

The following was sent to the United States Patent and Trademark Office

Utility Patent Application Transmittal Form

Specification (22 pages)

Copy of Declaration from Patent App. No. 09/443,776

Mailed via Express Mail on April 27, 2001

Alice O. Martin

Reg. No. 35,601

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United States Patent and Trademark Office

25/25/21 Page 1 of 4

COMMISSIONER FOR PATENTS
UNITED STATES PATENT AND TRADEMARK OFFICE
WASHINGTON, D.C. 2023I
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APPLICATION NUMBER	FILING DATE	GRP ART UNIT	FIL FEE REC'D	ATTY.DOCKET.NO	DRAWINGS	TOT CLAIMS	IND CLAIMS
09/844,705	04/27/2001	1633.	0.00	21419/91512		· 2	· 1

CONFIRMATION NO. 2430

23644 BARNES & THORNBURG 2600 CHASE PLAZA 10 LASALLE STREET CHICAGO, IL 60603

FILING RECEIPT

OC000000006186637

Date Mailed: 06/15/2001

Receipt is acknowledged of this nonprovisional Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please write to the Office of Initial Patent Examination's Customer Service Center. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Brad T. Bosworth, Cambridge, UNITED KINGDOM; Peter Vogeli, Zurich, SWITZERLAND;

Domestic Priority data as claimed by applicant

THIS APPLICATION IS A DIV OF 09/443,766 11/19/1999 WHICH CLAIMS BENEFIT OF 60/047,181 05/20/1997

Foreign Applications

PCT/US98/01318 05/20/1998

If Required, Foreign Filing License Granted 06/14/2001

Projected Publication Date: To Be Determined - pending completion of Missing Parts

Non-Publication Request: No

Early Publication Request: No

Title

Methods to identify swine genetically resistant to F18 E. coli associated diseases



800

Data entry by : YOSEPH, LETEYESUS

Team : OIPE

Date: 06/15/2001



LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

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PLEASE NOTE the following information about the Filing Receipt:

- The articles such as "a," "an" and "the" are not included as the first words in the title of an application. They are considered to be unnecessary to the understanding of the title.
- The words "new," "improved," "improvements in" or "relating to" are not included as first words in the title of an application because a patent application, by nature, is a new idea or improvement.
- The title may be truncated if it consists of more than 500 characters (letters and spaces combined).
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- If your application was submitted under 37 CFR 1.10, your filing date should be the "date in" found on the Express Mail label. If there is a discrepancy, you should submit a request for a corrected Filing Receipt along with a copy of the Express Mail label showing the "date in."
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Washington, DC 20231

PART B - FEE(S) TRANSMITTAL form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Complete and Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450 (703) 746-4000 or <u>Fax</u> INSTRUCTIONS: This (for should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate to the current correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications. CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 23644 01/06/2005 **BARNES & THORNBÜRG** Certificate of Mailing or Transmission
I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (703) 746-4000, on the date indicated below. P.O. BOX 2786 CHICAGO, IL 60690-2786 (Signature APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 09/844.705 -07/26/2001 Brad T. Bosworth 21419/91512 2430 TITLE OF INVENTION: METHODS TO IDENTIFY SWINE GENETICALLY RESISTANT TO F18 E. COLI ASSOCIATED DISEASES APPLN, TYPE SMALL ENTITY ISSUE FEE PUBLICATION FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1400 \$300 \$1700 04/06/2005 ART UNIT EXAMINER CLASS-SUBCLASS WOITACH, JOSEPH T 1632 536-023500 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. agents OR, alternatively, (2) the name of a single firm (having as a member a registered patent attorneys or agents. If no name is listed, no name will be printed. "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (B) RESIDENCE: (CITY and STATE OR COUNTRY) (A) NAME OF ASSIGNEE ☐ Individual ☐ Corporation or other private group entity ☐ Government Please check the appropriate assignee category or categories (will not be printed on the patent): 4a. The following fee(s) are enclosed: 4b. Payment of Fee(s): ☐ Issue Fee A check in the amount of the fee(s) is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized by charge the required fee(s), or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form). Advance Order - # of Copies 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ☐ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). The Director of the USPTO is requested to apply the Issue Fee and Publication Fee (if any) or to re-apply any previously paid issue fee to the application identified above. NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Typed or printed name Registration No.

This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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NOTICE OF ALLOWANCE AND FEE(S) DUE

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01/06/2005

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JAN 1 0 2005

EXAMINER

WOITACH, JOSEPH T

ART UNIT

PAPER NUMBER

1632

DATE MAILED: 01/06/2005

BARNES & THORNBU

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/844.705	97/26/2001 -	. Brad T. Bosworth	21419/91512	2430	

TITLE OF INVENTION: METHODS TO IDENTIFY SWINE GENETICALLY RESISTANT TO F18 E. COLI ASSOCIATED DISEASES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	NO	\$1400	\$300	\$1700	04/06/2005	

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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- B. If the status above is to be removed, check box 5b on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

Page 1 of 3

Due Date: 4695

PTOL-85 (Rev. 12/04) Approved for use through 04/30/2007.

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450

ATTORNEY DOCKET NO. CONFIRMATION NO.

EXAMINER

09/844 705

07/26/2001

Brad T. Bosworth

21419/91512

2430

PAPER NUMBER

23644

01/06/2005

WOITACH, JOSEPH T

BARNES & THORNBURG P.O. BOX 2786

CHICAGO, IL 60690-2786

ART UNIT 1632

DATE MAILED: 01/06/2005

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 450 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 450 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571) 272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.